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(SPEC/catalyst AND SPEC/"turnover number"): 335 patents.

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spec/catalyst and spec/"turnover number"

- | PAT.
NO. | Title |
|--------------|---|
| 1 6,777,374 | T Process for photo-induced selective oxidation of organic chemicals to alcohols, ketones and aldehydes using flame deposited nano-structured photocatalyst |
| 2 6,737,531 | T Catalysts for hydrogenation and hydrosilylation, methods of making and using the same |
| 3 6,728,641 | T Method and system for selecting a best case set of factors for a chemical reaction |
| 4 6,723,710 | T Compositions for inhibiting arginase activity |
| 5 6,723,349 | T Polyoxometalate materials, metal-containing materials, and methods of use thereof |
| 6 6,716,596 | T Agents for replacement of NAD ⁺ /NADH system in enzymatic reactions |
| 7 6,706,908 | T Method and catalyst composition for producing aromatic carbonates |
| 8 6,703,205 | T Apparatus and methods for correcting for variable velocity in microfluidic systems |
| 9 6,700,009 | T Method and catalyst system for producing aromatic carbonates |
| 10 6,700,008 | T Method and catalyst composition for producing aromatic carbonates |
| 11 6,684,161 | T Combinatorial experiment design method and system |
| 12 6,683,015 | T Method for reactivating a catalyst composition |
| 13 6,682,891 | T Methods of identifying nucleic acid sequences encoding plant riboflavin synthase enzymes |
| 14 6,673,615 | T Characterization of individual polymer molecules based on monomer-interface interactions |
| 15 6,670,515 | T Material constituted by ultrafine metallic and oxide particles |
| 16 6,670,449 | T Hybrid molecules and their use for optically detecting changes in cellular microenvironments |
| 17 6,670,297 | T Late transition metal diimine catalyst |

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- 18 6,649,823 **T** Gas specie electron-jump chemical energy converter
- 19 6,617,279 **T** Catalyst composition and method for producing diaryl carbonates, using bisphosphines
- 20 6,613,923 **T** Catalytic ionic hydrogenation of ketones using tungsten or molybdenum catalysts with increased lifetimes
- 21 6,613,580 **T** Microfluidic systems and methods for determining modulator kinetics
- 22 6,613,512 **T** Apparatus and method for correcting for variable velocity in microfluidic systems
- 23 6,605,430 **T** DNA shuffling of monooxygenase genes for production of industrial chemicals
- 24 6,573,353 **T** .alpha.-olefins and olefin polymers and processes therefor
- 25 6,566,299 **T** Catalyst system
- 26 6,566,295 **T** Method and catalyst system for producing aromatic carbonates
- 27 6,566,084 **T** Catalytic antibodies against cocaine and methods of using and producing same
- 28 6,548,698 **T** Oxidative carbonylation of toluene catalyzed by rhodium and iridium
- 29 6,545,188 **T** Transfer hydrogenation process and catalyst
- 30 6,544,923 **T** Surface-confined catalytic compositions
- 31 6,534,432 **T** Catalyst compositions for producing aromatic carbonates
- 32 6,524,790 **T** Apparatus and methods for correcting for variable velocity in microfluidic systems
- 33 6,521,784 **T** Process for the preparation of acetic acid or methyl acetate
- 34 6,521,748 **T** Polynucleotide encoding a mutant Rhodotorula glutinis tyrosine ammonia lyase polypeptide
- 35 6,518,446 **T** Method for producing formoxysilane
- 36 6,515,186 **T** Process for obtaining alpha-campholenic aldehyde
- 37 6,514,900 **T** Catalyst system for producing aromatic carbonates
- 38 6,512,134 **T** Method and catalyst system for producing aromatic carbonates
- 39 6,506,924 **T** Method for recovery of catalyst components
- 40 6,495,726 **T** Process for the production of benzaldehyde by the catalytic liquid phase air oxidation of toluene
- 41 6,489,506 **T** Process for the palladium and phosphine ligand catalyzed carbonylation of ethylene
- 42 6,489,103 **T** In vitro sorting method
- 43 6,482,989 **T** Method for oxidizing alkanes and cycloalkanes with aldehydes in the presence of copper-based catalysts and nitrogen-containing compounds
- 44 6,476,255 **T** Production of esters
- 45 6,472,551 **T** Process for the production of diaryl carbonates
- 46 6,465,675 **T** Method and catalyst system for producing aromatic carbonates
- 47 6,455,261 **T** Diagnostic assay using microperoxidase
- 48 6,440,893 **T** Method and catalyst composition for producing aromatic carbonates
- 49 6,440,892 **T** Method and catalyst composition for producing aromatic carbonates
- 50 6,420,589 **T** Process for the production of diaryl carbonates

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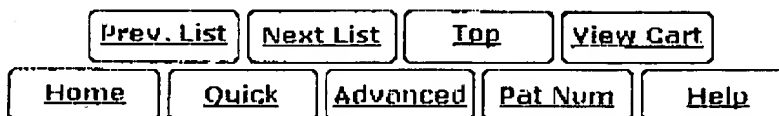
PARTICULAR FOR THE DEGRADATION OF ENVIRONMENTAL
POLLUTANTS AND FOR ALTERING THE RESISTANCE OF PLANTS
SENSITIVE TO PHENYLUREA FAMILY OF HERBICIDES

- 66 6,376,475 T Control of immune responses by modulating activity of glycosyltransferases
- 67 6,372,931 T Transfer hydrogenation process and catalyst
- 68 6,372,683 T Method and catalyst system for producing aromatic carbonates
- 69 6,368,837 T Bioproduction of para-hydroxycinnamic acid
- 70 6,365,538 T Method and catalyst system for producing aromatic carbonates
- 71 6,362,002 T Characterization of individual polymer molecules based on monomer-interface interactions
- 72 6,355,597 T Catalyst system for producing aromatic carbonates
- 73 6,350,597 T Riboflavin synthase genes and enzymes and methods of use
- 74 6,348,603 T Process for the preparation of isochroman-3-ones
- 75 6,346,652 T Asymmetric ring-closing metathesis reactions involving achiral and meso substrates
- 76 6,346,500 T Catalyst system for producing aromatic carbonates
- 77 6,346,499 T Catalyst composition for producing diaryl carbonates using carboxylic acid amide as promoter
- 78 6,323,378 T Method and composition for hydroxylation of aromatic substrates
- 79 6,323,013 T Lumazine synthase and riboflavin synthase
- 80 6,310,229 T Lead halophenoxides and carbonylation catalyst and method for preparing and employing them
- 81 6,310,163 T .alpha.-olefins and olefin polymers and processes therefor
- 82 6,294,374 T Use of catalytic antibodies for synthesizing epothilone
- 83 6,290,926 T Catalysts made from transition metal compounds and 4, 5-diphosphinoacridine-ligands
- 84 6,284,919 T Process for carbonylation of ethylene
- 85 6,265,622 T Method and composition for hydroxylation of aromatic substrates
- 86 6,265,340 T Catalyst composition and method for producing diaryl carbonates
- 87 6,252,048 T DNA sequences encoding fusions of DNA repair proteins and uses thereof
- 88 6,245,929 T Catalyst composition and method for producing diaryl carbonates, using bisphosphines
- 89 6,242,658 T Process for the manufacture of fluorine-substituted hydrocarbons
- 90 6,232,510 T Method and composition for hydroxylation of aromatic substrates
- 91 6,222,002 T Method for preparing polycarbonates by oxidative carbonylation
- 92 6,221,661 T Hairpin ribozymes
- 93 6,218,493 T .alpha.-olefins and olefin polymers and processes therefor
- 94 6,218,326 T Supported molten-metal catalysts
- 95 6,215,015 T Catalyst composition and method for producing diaryl carbonates, using bisphosphines
- 96 6,215,014 T Catalyst composition and method for producing diaryl carbonates
- 97 6,207,849 T Method and catalyst system for producing aromatic carbonates
- 98 6,207,848 T Process for the production of diaryl carbonates
- 99 6,207,648 T Methods of using cytochrome P450 reductase for the enhancement of P450-based

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anti-cancer gene therapy

100 6,207,399 T Methods of determining endogenous thrombin potential (ETP) and thrombin substrates for use in said methods



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PAT. NO.	Title
101 6,201,146	T Method and catalyst system for producing aromatic carbonates
102 6,197,991	T Method and catalyst system for producing
103 6,197,957	T Process for preparing derivatives of (halo)amino-1,3,5-triazines by carbonylation
104 6,193,943	T Catalytic applications of mesoporous metallosilicate molecular sieves and methods for their preparation
105 6,191,318	T Process for preparing hydroxylated aromatics by hydrogen and oxygen
106 6,191,299	T Method for making aromatic carbonates
107 6,184,428	T Catalyst and process for ethylene oligomerization
108 6,184,409	T Method and catalyst system for producing aromatic carbonates
109 6,184,013	T Catalytic antibodies against cocaine and methods of using and producing same
110 6,180,836	T Preparation of phenol via one-step hydroxylation of benzene catalyzed by copper-containing molecular sieve
111 6,180,812	T Catalyst composition and method for producing diaryl carbonates using amide as promoter
112 6,180,788	T Catalyst compositions
113 6,177,270	T Reaction-based selection for expression of and concentration of catalytic moieties
114 6,175,033	T Method and catalyst system for producing aromatic carbonates
115 6,172,254	T Catalyst composition and method for producing diaryl carbonates using nitrile as promoter

T

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spec/catalyst and spec/"turnover number"

PAT. NO.	Title
151 5,972,305	T Direct manufacturing method of hydrogen peroxide
152 5,958,202	T Capillary electrophoresis enzyme immunoassay
153 5,955,603	T Porphyrins and porphyrin synthesis techniques
154 5,955,555	T Polymerization of ethylene
155 5,936,126	T Process for reacting an organic compound in the presence of a supported ruthenium catalyst
156 5,932,756	T Catalyst and process for preparing amides
157 5,932,559	T Treatment of hyperandrogenic conditions
158 5,916,989	T Polymers of C.sub.4 and higher .alpha.-olefins
159 5,914,245	T Solid phase enzyme kinetics screening in microcolonies
160 5,910,618	T Process for preparing 2,3-dimethyl-2-butene
161 5,908,924	T Cloning and expression of the gene encoding thermoanaerobacter ethanolicus 39E secondary-alcohol dehydrogenase and enzyme biochemical characterization
162 5,908,805	T Preparation of transition metal/phosphine catalysts by hydrogen reduction
163 5,902,916	T Process for reacting an organic compound in the presence of a ruthenium catalyst formed in situ
164 5,898,079	T Method for preparing diaryl carbonates employing hexaalkylguanidinium halides
165 5,892,101	T Cross-dimerization of olefins
166 5,891,963	T .alpha.-olefins and olefin polymers and processes therefor

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- 167 5,891,648 **T** Reaction-based selection for expression of and concentration of catalytic moieties
- 168 5,886,224 **T** α -diimines for polymerization catalysts
- 169 5,886,043 **T** Substituted 4-biarylbutyric acid derivatives as matrix metalloprotease inhibitors
- 170 5,886,024 **T** Thiophene-containing butonic acid derivatives as matrix metalloprotease inhibitors
- 171 5,886,022 **T** Substituted cycloalkanecarboxylic acid derivatives as matrix metalloprotease inhibitors
- 172 5,880,323 **T** Processes for making α -olefins
- 173 5,880,241 **T** Olefin polymers
- 174 5,876,587 **T** Electrochemical synthesis of transition metal/phosphine catalysts
- 175 5,874,632 **T** Method of producing ketoisophorone
- 176 5,874,473 **T** Substituted cycloalkanecarboxylic acid derivatives as matrix metalloprotease inhibitors
- 177 5,869,339 **T** HIV targeted hairpin ribozymes
- 178 5,866,701 **T** HIV targeted hairpin ribozymes
- 179 5,866,663 **T** Processes of polymerizing olefins
- 180 5,861,477 **T** Cyclic peptide catalysts modeled on enzyme active sites
- 181 5,861,428 **T** Substituted 4-biarylbutyric acid derivatives as matrix metalloprotease inhibitors
- 182 5,861,427 **T** Substituted 4-biarylbutyric acid derivatives as matrix metalloprotease inhibitors
- 183 5,859,047 **T** Substituted 4-biarylbutyric acid derivatives as matrix metalloprotease inhibitors
- 184 5,858,785 **T** HIV targeted ribozymes
- 185 5,856,188 **T** Hairpin ribozymes
- 186 5,855,864 **T** Catalytic applications of mesoporous metallosilicate molecular sieves and methods for their preparation
- 187 5,854,277 **T** Thiophenebutanoic acid derivatives as matrix metalloprotease inhibitors
- 188 5,852,145 **T** Polymerization processes for olefins
- 189 5,847,166 **T** Synthesis of aryl ethers
- 190 5,817,848 **T** Bidentate phosphine ligand
- 191 5,817,830 **T** Pyrrolic compounds
- 192 5,810,985 **T** Electrophoretically mediated chemical analysis
- 193 5,808,121 **T** Catalyst compositions and process of making polyketones therewith
- 194 5,807,688 **T** Catalytic antibodies for carbamate activation by a non-spontaneous reaction mechanism
- 195 5,795,782 **T** Characterization of individual polymer molecules based on monomer-interface interactions
- 196 5,795,750 **T** Process for the continuous enzymatic extraction of hydrophobic products and device suitable therefor
- 197 5,789,434 **T** Derivatives of substituted 4-biarylbutyric acid as matrix metalloprotease inhibitors
- 198 5,786,496 **T** High oxidation state metal oxo complexes of the PHAB ligand
- 199 5,776,576 **T** Phthalocyanine compound as a layer in optical recording medium
- 200 5,759,834 **T** Synthetic sterically-constrained pepzyme catalysts modeled on lysozyme and ribonuclease

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spec/catalyst and spec/"turnover number"

PAT. NO.	Title
201 5,756,480	T Treatment of hyperandrogenic conditions
202 5,756,417	T Catalyst compositions
203 5,738,986	T Analytical reagent particle with covalently-bound enzyme
204 5,728,890	T Process for producing a cycloalkanol and cycloalkanone
205 5,719,039	T Enzyme-surfactant ion-pair complex catalyzed reactions in organic solvents
206 5,712,402	T Catalytic applications of mesoporous metallosilicate molecular sieves and methods for their preparation
207 5,683,902	T Human papilloma virus inhibition by a hairpin ribozyme
208 5,679,749	T Olefin epoxidation using niobium-containing zeolites
209 5,679,237	T Electrochemical synthesis of transition metal/phosphine catalyst compounds
210 5,641,723	T Process for the preparation of highly active doped metal supported catalysts
211 5,631,148	T Ribozymes with product ejection by strand displacement
212 5,631,137	T Reaction-based selection for expression of and concentration of catalytic moieties
213 5,618,930	T Phthalocyanine compound and method for making, nitro-substituted phthalocyanine compound, amino-substituted phthalocyanine compound, phthalocyanine-containing polymer and method for making, catalyst, and optical recording medium
214 5,618,512	T Niobium-containing zeolites
215 5,602,015	T Autoantibodies which enhance the rate of a chemical reaction
216 5,599,538	T Autoantibodies which enhance the rate of a chemical reaction

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- 217 5,595,873 T T. thermophila group I introns that cleave amide bonds
- 218 5,580,485 T Bleach activation
- 219 5,563,263 T D.sub.4 -symmetric porphyrin-based catalysts, processes for preparing same, and processes for using same
- 220 5,557,014 T Catalytic system for olefin oxidation to carbonyl products
- 221 5,527,895 T HIV targeted hairpin ribozymes
- 222 5,525,566 T Palladium phosphine ligand catalyst
- 223 5,516,900 T Phthalocyanine compounds containing either a polymerizable vinyl group, a nitro group, or an amino group
- 224 5,506,363 T Catalytic system for olefin oxidation to carbonyl products
- 225 5,498,789 T Method of producing aromatic carbonate
- 226 5,459,032 T Method of conducting a non-instrumental test to determine catalyst presence
- 227 5,445,942 T Amplification assay for hydrolase enzymes
- 228 5,424,440 T Fluorescent benzothiazole derivatives
- 229 5,414,110 T Ru-Sn hetero-polynuclear complex and process for producing acetic acid or methyl acetate by using the same
- 230 5,405,752 T Enzyme conjugate prepared with insoluble nanoparticle
- 231 5,403,711 T Nucleic acid hybridization and amplification method for detection of specific sequences in which a complementary labeled nucleic acid probe is cleaved
- 232 5,382,332 T Method for electrolytic reduction of carbon dioxide gas using an alkyl-substituted Ni-cyclam catalyst
- 233 5,358,860 T Stereoselective epoxidation of alkenes by chloroperoxidase
- 234 5,352,813 T Carbonylation of methanol using a novel transition metal catalyst
- 235 5,349,115 T Dimerization of low α -olefins
- 236 5,322,913 T Polysilazanes and related compositions, processes and uses
- 237 5,304,631 T Synthetic helizyme enzymes
- 238 5,288,818 T Method for separating a water soluble noble metal catalyst from a noble metal catalyzed hydroformylation reaction
- 239 5,284,563 T Electrode catalyst for electrolytic reduction of carbon dioxide gas
- 240 5,254,742 T Process for preparing 2-hexene-1,6-dial
- 241 5,236,836 T Autoantibodies which enhance the rate of a chemical reaction
- 242 5,236,825 T Polyvalent metal ion-containing antibody combining site catalysts
- 243 5,223,634 T Molecular water oxidation catalyst
- 244 5,215,667 T Method for separating water soluble noble metal catalyst from a noble metal catalyzed hydroformylation reaction
- 245 5,194,585 T Inhibitors of catalytic antibodies
- 246 5,191,103 T Process and composition for promoting hydrosilylation reactions using sterically hindered nitrogen-containing and phosphorus-containing compounds
- 247 5,179,224 T Preparation process of cinnamate ester
- 248 5,177,258 T Method of production of biaryl derivatives
- 249 5,162,279 T Immobilized metal complexes
- 250 5,140,050 T Titania catalysts, their preparation, and use in Fischer-Tropsch synthesis

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spec/catalyst and spec/"turnover number"

PAT. NO.	Title
251 5,136,105	T Oxidation of terminal olefins to aldehydes
252 5,132,259	T Method for reactivating catalysts used in catalytic vapor phase process for producing dihydrocarbyl carbonates
253 5,108,970	T Catalysts and process for oligomerization of olefins with nickel-containing zeolite catalysts
254 5,103,064	T Process for producing a carbonyl compound
255 5,099,061	T Rhodium-catalyzed olefin dimerization
256 5,099,048	T Rhodium-catalyzed olefin dimerization
257 5,087,755	T Process for producing aromatic amines by reduction of aromatic nitro compounds
258 5,077,447	T Process for making olefins
259 5,047,324	T Substantially pure enzyme-antibody conjugate preparations
260 5,047,132	T Apparatus for catalytically reducing dioxygen using dirhodium complexes
261 5,012,008	T Supported amorphous phase heterogeneous catalysts for biphasic hydroformylation
262 5,008,422	T Polysilazanes and related compositions, processes and uses
263 5,004,837	T Process for preparing a cycloalkanone and/or cycloalkanol
264 5,004,827	T Catalytic vapor phase process for producing dihydrocarbyl carbonates
265 4,992,406	T Titania-supported catalysts and their preparation for use in Fischer-Tropsch synthesis
266 4,920,055	T Conversion of alcohols to aldehydes and hydrogen peroxide by substrate and product tolerant methanol oxidases

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- 267 4,904,370 **T** Electrochemical organic reactions via catalytic halide substitution
- 268 4,892,822 **T** Enzyme-catalyzed reactions involving diphenyl carbonate
- 269 4,873,379 **T** Process for making 1,3-diols from epoxides
- 270 4,867,840 **T** Method of making artificially textured layered catalyst
- 271 4,855,528 **T** Catalysts and process for oligomerization of olefins with nickel-containing zeolite catalysts
- 272 4,847,231 **T** Mixed ruthenium catalyst
- 273 4,831,008 **T** Method for the preparation and application of rhodium catalysts for the hydrogenation of aromatic and other unsaturated compounds under mild condition
- 274 4,812,396 **T** Method for detecting enzymatic activity using particle agglutination
- 275 4,812,395 **T** Method for detecting enzymatic activity using particle agglutination
- 276 4,789,630 **T** Ionic compounds containing the cationic merquinone of a benzidine
- 277 4,788,309 **T** Method of forming compounds having Si-N groups and resulting products
- 278 4,761,209 **T** System for the extraction and utilization of oxygen from fluids
- 279 4,756,807 **T** Chemically modified electrodes for the catalytic reduction of CO.sub.2
- 280 4,714,692 **T** Microemulsion impregnated catalyst composite and use thereof in a synthesis gas conversion process
- 281 4,711,708 **T** Chemically modified electrodes for the catalytic reduction of CO.sub.2
- 282 4,705,771 **T** Process and catalyst for the production of formaldehyde from methane
- 283 4,681,968 **T** Method of producing adiponitrile
- 284 4,661,623 **T** Method of producing methyl formate from methanol and carbon monoxide using anionic group VIII metal catalysts
- 285 4,661,620 **T** Preparation process of cinnamate esters
- 286 4,642,284 **T** Method and system for detection of complement pathway activation
- 287 4,612,383 **T** Method of producing polysilazanes
- 288 4,607,127 **T** Process and catalyst for the production of formaldehyde from methane
- 289 4,602,987 **T** System for the extraction and utilization of oxygen from fluids
- 290 4,547,595 **T** Method of reactivating Group VIII anionic hydroformylation catalysts
- 291 4,533,651 **T** Catalysts for olefin oligomerization and isomerization
- 292 4,528,405 **T** Aldol condensation of enolizable aldehydes using a metal carboxylate catalyst
- 293 4,526,722 **T** Manufacture of diacyloxy aromatic compounds
- 294 4,519,954 **T** Leach resistant catalyst useful for the dimerization of acrylic compounds
- 295 4,514,521 **T** Manufacture of oxygenated compounds
- 296 4,504,371 **T** Process for the photocatalytic isomerization of olefins utilizing a mixed metal cluster
- 297 4,482,647 **T** Manufacture of oxygenated compounds
- 298 4,465,633 **T** Manufacture of aryl esters
- 299 4,429,056 **T** Manufacture of oxygenated compounds
- 300 4,421,862 **T** CO Hydrogenation and alcohol homologation by means of soluble group VIII homogeneous catalysts

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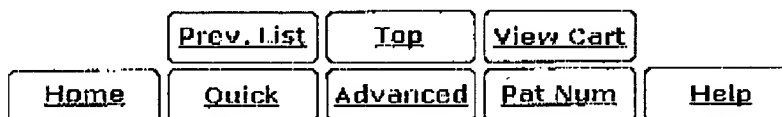
PAT. NO.	Title
301 4,421,617	T Photolytic production of hydrogen from water
302 4,415,749	T Catalytic process for the selective formation of ethanol and methyl acetate from methanol and synthesis gas
303 4,394,293	T Catalyst for the photolytic production of hydrogen from water
304 4,384,981	T Hydrogenation process utilizing novel catalyst
305 4,382,846	T Simultaneous production of hydrogen and oxygen from water
306 4,370,507	T Ethanol from methanol and synthesis gas
307 4,361,499	T Catalyst for converting methanol and synthesis gas to ethanol
308 4,355,174	T Preparation of 5(halophenyl)salicylic acid compounds
309 4,320,032	T Catalyst for hydrogenation of aromatic dinitriles
310 4,309,314	T Catalytic composition for the selective formation of ethanol and methyl acetate from methanol and synthesis gas
311 4,301,032	T Thorium oxide-containing catalyst and method of preparing same
312 4,287,095	T High surface area transition metal catalysts and method of preparing same
313 4,277,627	T Hydroformylation process
314 4,273,724	T Hydrocarbon synthesis from CO and H.sub.2 using titanium promoted bulk nickel catalysts
315 4,272,410	T Catalyst for preparation of oxygenates from carbon monoxide and hydrogen
316 4,266,086	T Process for removing .alpha.-acetylenes from diolefins
317 4,259,527	T Molybdenum and tungsten peroxo complexes useful as oxidation catalysts
318 4,256,653	T Preparation and use of high surface area transition metal catalysts

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- 319 4,247,478 **T** Process and catalyst for hydrogenation of aromatic dinitriles
320 4,237,315 **T** Preparation of 5(halophenyl)salicylic acid compounds
321 4,228,060 **T** Polymerization of acetylene
322 4,210,597 **T** Preparation of oxygenates from carbon monoxide and hydrogen
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329 4,093,643 **T** Catalytic formation of hydrocarbons from CO, H.sub.2 mixtures and process for maintaining catalytic activity
330 4,071,473 **T** Preparation and use of high surface area transition metal catalysts
331 4,039,385 **T** Cardiac glycoside enzyme conjugates
332 4,013,734 **T** Novel catalyst and its use for steam hydroconversion and dealkylation processes
333 4,002,658 **T** Methanation catalyst and process of using the same
334 3,987,009 **T** Transition metal catalyst compositions
335 3,941,819 **T** Catalytic formation of hydrocarbons from CO hydrogen mixtures



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